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Volume 9, March 2004

Did You Know...

Optivity Policy Services/BayStack IP Traffic Policy Hint

There are times when it is necessary for a customer to configure a port-based traffic policy on a network element with the all inclusive IP address range of 0.0.0.0/0. This traffic condition is useful to rate limit applications or to protect against certain Denial of Service (DoS) attacks.

When using Optivity Policy Services 3.0 or higher to establish these criteria on a Baystack 460/470 or mixed stack (BoSS 3.0) it is not possible to use the "ANY/ANY" or "0.0.0.0 /0.0.0.0" values in the address fields. To achieve the equivalent result, apply this complete list of IP subnets and masks to the "IP Address Ranges" menu:

IP Address	Mask
1.0.0.0	255.0.0.0
2.0.0.0	255.0.0.0
3.0.0.0	255.0.0.0
4.0.0.0	252.0.0.0
8.0.0.0	248.0.0.0
16.0.0.0	240.0.0.0
32.0.0.0	224.0.0.0
64.0.0.0	192.0.0.0
128.0.0.0	128.0.0.0

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ETHERNET SWITCHING

BayRS 15.5 ICMP Enhancement

With the release of 15.5 comes an ICMP enhancement that brings the BayRS routers in line with Linux, Cisco, and established networking standards. Prior to the 15.5 release, ICMP echo request packets generated by a BayRS router contained a fixed ICMP identifier with no options to change this behavior.

This lack of unique identifiers in ICMP packets could cause errors when a BayRS router tries to ping 2 different hosts behind a NAT/PATed network. For example, a Cisco router running NAT/PAT would encapsulate the echo replies coming from the NATed hosts but would use a different ICMP identifier when sending the replies back to the BayRS router. This would cause errors on the BayRS router since the source identifier did not match the reply.

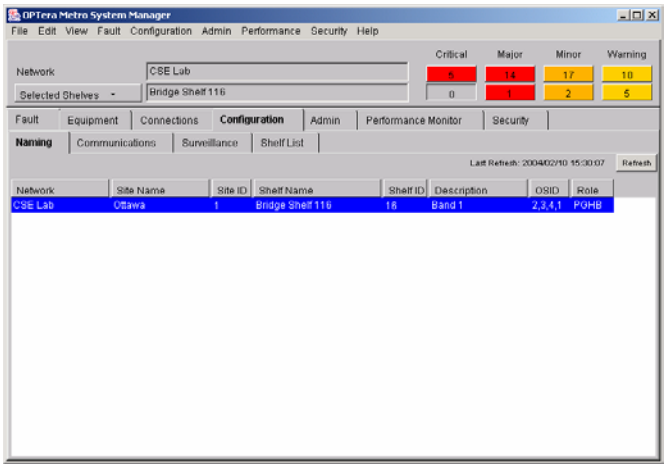
In order to fix this problem, the BayRS team has provided the option of enabling ICMP unique identifiers, thus allowing the router to send ICMP echo-request packets with a unique identifier in each packet. This IP option is disabled by default. To enable it, do the following at the BCC prompt:

```
bcc> config
box# ip
ip# icmp-echo-request-unique-id enabled
```

_____

OPTICAL ENTERPRISE

OPTera Metro 5000: System Management Interface (SMI) Shelf Configuration – Shelf Role


OPTera Metro System Manager
File Edit View Fault Configuration Admin Performance Security Help
Critical Major Minor Warning
Network CSE Lab 6 14 17 10
Selected Shelves Bridge Shelf 116 0 1 2 5
Fault Equipment Connections Configuration Admin Performance Monitor Security
Naming Communications Surveillance Shelf List
Refresh
Network Site Name Site ID Shelf Name Shelf ID Description OSID Role
CSE Lab Ottawa 1 Bridge Shelf 116 16 Band 1 2,3,4,1 PGHB

The “Shelf Role” under the “Configuration/Naming” tab is system defined. The operator cannot change those roles. It is established by the system when the configuration is completed.

These roles are all independent roles within the OM5000. They could all apply to any one given shelf, but a shelf could have any single one of those roles as well (or none, of course).

P = Primary shelf
The shelf in an OM5000 network which collects and distributes OM5000 network information (referred to as the shelf list) from/to the other shelves. Commonly configured to be the same as a Gateway Network Element (GNE) shelf, but this is not a requirement.

G = GNE (alternately known as the DCN gateway, or just the “gateway”)
An OM5000 shelf, that is designated as a communications gateway between the Optical Metro 5000-series network and the customer’s DCN.

H = SMI host shelf.
The shelf, on which, the SMI session has been started. The SMI is commonly started on a GNE shelf, so it is common to see the G and H roles together.

RICH MEDIA SERVICES

MCS 5100 – Getting IPCM Processes Up After Rebooting Server

After rebooting an IPCM server, the iPlanet processes may not startup properly forcing the system administrator to manually start some processes. A case has been opened to address this and the fix will be incorporated in a future software maintenance release. Until then you can work around this problem by:

Log into the IPCM as user = root
Go to directory **/etc/init.d**
Use the Unix vi editor to modify the **startconsole.init** file so it looks exactly like this:

```
#!/bin/sh
echo "Starting Console"
/opt/iPlanet/servers/startconsole
/IMS/web/bin/web/startWeb
```

Save the file and reboot the server. All processes will now come up after reboot. Give the server 3-4 minutes, for everything to come up, before having users log on.

SECURITY/VIRTUAL PRIVATE NETWORK

Contivity Secure IP Services Gateway Tech Tips

- CRL Retrieval
- Netscreen peer-to-peer tunnel using pre-shared key authentication
- Netscreen IPSec peer-to-peer tunnel using certificates authentication

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